

Preferred Laboratory Methods for Analysis of Drinking Water Samples

Note: Any EPA approved lab method for compliance with drinking water standards as listed in 40 CFR 141 is applicable. The State of Michigan uses the following methods with the identified reporting limits. Metals are total as the samples are not filtered and are preserved with acid prior to analysis. Exception is for iron if method 3500 is used. Then iron is reported as dissolved iron, not total iron.

<u>Parameter</u>	<u>Method</u>	<u>RL - Reporting Limit</u>
Chloride	SM 4500-Cl E	4 mg/l
Fluoride	SM 4500 FC	0.1 mg/l
Nitrate as N	SM 4500 NO ₃ H	0.4 mg/l
Nitrite as N	SM 4500 NO ₃ H	0.05 mg/l
Sulfate	SM 4500 SO ₄ E	10 mg/l
Sodium	SM 3500 NaB	5 mg/l
Hardness as CaCO ₃	SM 2340 C	10 mg/l
Iron	SM 3500 FeB or EPA 200.8	0.1 mg/l 0.02 mg/l
all other metals	EPA 200.8	varies by metal
Volatile Organic Chemicals	EPA 524.2	varies by VOC
Arochlor (each individual one)	EPA 525.2	0.0001 mg/l

Phthalates are not typically analyzed for so don't have a method to offer